

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 12/11/00

Date Received: 11/30/00

Project: Metro Self Monitor, PO# M64896

Date Extracted: 12/07/00

Date Analyzed: 12/08/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M64896 011182-01	0.86	1.4	1.2	0.19 fb
Method Blank	<0.05	<0.05	<0.05	0.07 lc

fb - The analyte indicated was found in the blank. Its presence may be due to laboratory contamination.

lc - The presence of the compound indicated is likely due to laboratory contamination.

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Project: Metro Self Monitor, PO# M64896

**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 011182-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.86	0.93	8	0-20
Copper	mg/L (ppm)	1.4	1.3	7	0-20
Nickel	mg/L (ppm)	1.2	1.3	8	0-20
Zinc	mg/L (ppm)	0.19	0.14	a	0-20

Laboratory Code: 011182-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	50	0.86	94	97	80-120	3
Copper	mg/L (ppm)	50	1.4	89	95	80-120	7
Nickel	mg/L (ppm)	100	1.2	92	91	80-120	1
Zinc	mg/L (ppm)	50	0.19	96	88	80-120	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	50	101	104	80-120	3
Copper	mg/L (ppm)	50	107	107	80-120	0
Nickel	mg/L (ppm)	100	100	103	80-120	3
Zinc	mg/L (ppm)	50	107	107	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.





**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

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December 11, 2000

**DUPLICATE COPY**

**INVOICE #00ACU1211-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M64896 - Results of testing requested by  
Gerry Thompson for material submitted on November 30, 2000.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010 @ \$80 per sample	<u>\$ 80.00</u>
Amount Due .....	\$ 80.00

FEDERAL TAX ID #(b) (6)

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December 11, 2000

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

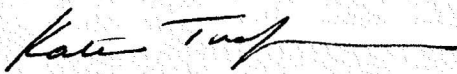
Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 30, 2000 from your Metro Self Monitor, PO# M64896 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton  
Project Manager

Enclosures  
ACU1211R.DOC